

**Lannate™ Insecticide**

Version 3.0

Issue Date : 04/05/2019 Ref. 130000000505  
Revision Date : 04/01/2019

This SDS adheres to the standards and regulatory requirements of Canada and may not meet the regulatory requirements in other countries.

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : Lannate™ Insecticide  
Tradename/Synonym : B10029800  
DPX-X1179 90SP  
Yugo  
Lannate SP  
Methomyl 90SP  
Lannate 90WD  
90WD  
METHOMYL (S-methyl N-[(methylcarbamoyl)oxy]thioacetimidate)

SDS Number : 130000000505

Product Use : Insecticide  
Manufacturer : Production Agriscience Canada Company  
P.O. Box 730, 7398 Queen's Line  
Chatham, Ontario  
N7M 5L1  
Canada

Product Information : 1-800-667-3852  
Medical Emergency : 1-800-441-3637 (24 hours)

**SECTION 2. HAZARDS IDENTIFICATION**

Emergency Overview

Warning symptoms:

Poisoning produces effects associated with anticholinesterase activity which may include: Weakness, Blurred vision, Headache, Nausea, Abdominal pain, discomfort in the chest, constriction of pupils, Sweating, slow pulse, muscle twitching

Potential Health Effects

Eyes

Methomyl : May cause eye irritation. May cause:, Tearing, redness, or discomfort..

Inhalation

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Methomyl : Toxic by inhalation. Nasal or ocular discharge, Central nervous system effects.

Ingestion  
Methomyl : Very toxic if swallowed.

Target Organ  
Methomyl : Central nervous system

Carcinogenicity  
None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS-No.	Concentration
Methomyl	16752-77-5	90 %
Other Ingredients		10 %

**SECTION 4. FIRST AID MEASURES**

Skin contact : Take off all contaminated clothing immediately. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Eye contact : Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Inhalation : Move to fresh air. Artificial respiration and/or oxygen may be necessary. Call a poison control center or doctor for treatment advice.

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- Ingestion : Call a physician or poison control centre immediately. If swallowed, drink 1 or 2 glasses of water and try once or twice to induce vomiting by touching the back of throat with finger. Induce vomiting if person is conscious. Never give anything by mouth to an unconscious person.
- General advice : ATROPINE IS AN ANTIDOTE - SEEK MEDICAL ATTENTION AT ONCE IN ALL CASES OF SUSPECTED POISONINGS. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.  
For medical emergencies involving this product, call toll free 1-800-441-3637. See Label for Additional Precautions and Directions for Use.
- Notes to physician : This product is an acetyl cholinesterase inhibiting carbamate insecticide. Morphine therapy is contra-indicated. Probable mucosal damage may contraindicate the use of gastric lavage. Morphine, 2-PAM and oxime therapy are contra-indicated. Administer atropine sulphate as an antidote until complete atropinisation (1.2-2.0 mg i.v. every 10-30 minutes). However, for exposure to methomyl in combination with organophosphorous insecticides, 2-PAM (1-2 g slow i.v.) may be used as required to supplement the atropine sulfate treatment as described above. Artificial respiration and/or oxygen may be necessary. Allow no further exposure to any cholinesterase inhibitor until full recovery is assured.

**SECTION 5. FIREFIGHTING MEASURES**

- Flammable Properties  
Flash point : Not applicable
- Lower explosion limit/ Lower flammability limit : 0.096 g/l
- Fire and Explosion Hazard : Fire or intense heat may cause violent rupture of packages. Dust may form explosive mixture in air.
- Suitable extinguishing media : Water spray, Foam, Dry chemical, Carbon dioxide (CO<sub>2</sub>)
- Unsuitable extinguishing media : High volume water jet, (contamination risk)

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Firefighting Instructions : In the event of fire, wear self-contained breathing apparatus. Wear full protective equipment.  
If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Cool containers/tanks with water spray.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Safeguards (Personnel) : Evacuate personnel, thoroughly ventilate area, use self-contained breathing apparatus. Use personal protective equipment.

Spill Cleanup : Sweep up and shovel into suitable containers for disposal. Soak up with sawdust, sand, oil dry or other absorbent material. If product enters crevices and can not be removed, treat with a sodium hydroxide solution and allow to stand 4 hours. Note: Sodium hydroxide is caustic and causes burns. Do not get in eyes, skin or clothing.

Accidental Release Measures : Prevent material from entering sewers, waterways, or low areas. Never return spills in original containers for re-use. Dispose of in accordance with local regulations.

**SECTION 7. HANDLING AND STORAGE**

Handling (Personnel) : Do not breathe dust or spray mist. Do not get in eyes, on skin, or on clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Remove clothing/PPE immediately if material gets inside. Wash thoroughly and put on clean clothing.

Handling (Physical Aspects) : Keep away from heat and sources of ignition. Use only in well-ventilated areas.

Storage : Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Handle this package carefully to prevent breakage of inner bag when stored at low temperatures. Allow to warm above 10°C (50°F) for normal handling. Store in original container. Keep container tightly closed in a dry and well-

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ventilated place. Not for use or storage in or around the home. Keep out of the reach of children.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Engineering controls : Use only with adequate ventilation.

Personal protective equipment

Respiratory protection : For exposures in enclosed areas: A respirator with an organic vapor-removing cartridge with a prefilter approved for pesticides (NIOSH approval number prefix TC-23C), or a canister approved for pesticides (NIOSH approval number prefix TC-14G), or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P, or HE prefilter.

For exposures outdoors: A NIOSH approved dust/mist filtering respirator with any R, P, or HE filter or with approval number prefix TC-21C.

Skin and body protection : Applicators and other handlers exposed to the diluted material must wear:

Long sleeved shirt and long pants

Chemical-resistant gloves

Shoes plus socks

Protective eyewear

Mixers, loaders, applicators and other handlers who may be exposed to the concentrate must wear:

Long sleeved shirt and long pants

Chemical-resistant gloves

Chemical resistant footwear plus socks

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Protective eyewear

Chemical resistant apron

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

Coveralls

Chemical-resistant gloves, Category A (such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber), all greater than or equal to 14 mils

Shoes plus socks

Protective eyewear

Protective measures : Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Exposure Guidelines

Exposure Limit Values

<b>Methomyl</b>			
TLV	(ACGIH)	0.2 mg/m <sup>3</sup> fraction and vapor	8-hour, time-weighted average Inhalable
		Hematologic effects	

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		Cholinesterase inhibition Male reproductive damage Substances for which there is a Biological Exposure Index or Indices (see BEI® section), see BEI® for Cholinesterase Inhibiting Pesticide Not classifiable as a human carcinogen Danger of cutaneous absorption
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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Form : solid, powder  
 Color : white, or, blue  
 Odor : slight, sulphurous  
 Specific gravity : 1.2946 at 25 °C (77 °F)  
 Water solubility : 58 g/l at 25 °C (77 °F)

**SECTION 10. STABILITY AND REACTIVITY**

Stability : Stable at normal temperatures and storage conditions.  
 Incompatibility : Incompatible products Strong bases  
 Hazardous decomposition products : Hazardous thermal decomposition products: Sulphur oxides, Methyl isocyanate, Hydrogen cyanide (hydrocyanic acid)

**SECTION 11. TOXICOLOGICAL INFORMATION**

Lannate™ Insecticide  
 Oral LD50 : 23 mg/kg , Rat  
 Skin irritation : No skin irritation, Rabbit  
 Eye irritation : slight irritation, Rabbit  
 Sensitisation : Animal test did not cause sensitization by skin contact., Guinea pig

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Dermal LD50 : > 2,000 mg/kg , Rabbit

Inhalation 4 h LC50 : 0.258 mg/l , Rat

Repeated dose toxicity : Ingestion  
Rat  
24 Months  
No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification., altered hematology

Carcinogenicity : Animal testing did not show any carcinogenic effects.

Reproductive toxicity : No toxicity to reproduction  
Animal testing showed no reproductive toxicity.  
No effects on or via lactation

Teratogenicity : Animal testing showed no developmental toxicity.

**SECTION 12. ECOLOGICAL INFORMATION**

Aquatic Toxicity

Methomyl

96 h LC50 : Lepomis macrochirus (Bluegill sunfish) 0.63 mg/l

72 h EC50 : Pseudokirchneriella subcapitata (green algae) > 100 mg/l

72 h NOEC : Pseudokirchneriella subcapitata (green algae) 100 mg/l

48 h EC50 : Daphnia magna (Water flea) 0.0088 mg/l

48 h EC50 : Daphnia magna (Water flea) 0.017 mg/l

35 d : NOEC Pimephales promelas (fathead minnow) 0.073 mg/l

21 d : NOEC Daphnia magna (Water flea) 0.0016 mg/l

Environmental Fate

Methomyl



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Bioaccumulation : Bioaccumulation is unlikely.

Additional ecological information : Environmental Hazards: Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Run-off from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate. Do not apply this product if bees are visiting the treatment area. See product label for additional application instructions relating to environmental precautions. No data is available on the product itself.

**SECTION 13. DISPOSAL CONSIDERATIONS**

Waste Disposal : Do not contaminate water, food or feed by disposal. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container disposal: : Container Refilling and Disposal:  
Refer to the product label for instructions.  
If the container is to be refilled, do not rinse with any material or introduce any pesticide other than this product.  
**DO NO REUSE THE CONTAINER FOR ANY OTHER PURPOSE.**  
Do not transport if this container is damaged or leaking.

**SECTION 14. TRANSPORT INFORMATION**

IATA_C	UN number	: 2757
	Proper shipping name	: Carbamate pesticide, solid, toxic (Methomyl)
	Class	: 6.1
	Packing group	: II
	Labelling No.	: 6.1
IMDG	UN number	: 2757
	Proper shipping name	: CARBAMATE PESTICIDE, SOLID, TOXIC (Methomyl)
	Class	: 6.1
	Packing group	: II
	Labelling No.	: 6.1

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Marine pollutant : yes (Methomyl)

**SECTION 15. REGULATORY INFORMATION**

PCP Registration # : 10868  
Remarks : Regulated under the Pest Control Products Act - WHMIS exempt.  
No substances are subject to a Significant New Activity Notification.

**SECTION 16. OTHER INFORMATION**

MSDS preparation date : 04/01/2019

(TM) Trademark of E.I. du Pont de Nemours and Company.

Contact person : Production Agriscience Canada Company, Chatham, Ontario, N7M 5L1

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